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(54) **OPERATION CONTROL DEVICE FOR AIR-CONDITIONER**

(57) Abstract:

PURPOSE: To minimize an input power of a motor-driven compressor in a light loaded operation by a method wherein a detector to detect a load of a motor- driven compressor, a table seeking for revolution of the same and a micro-computer capable of computing the data on revolution obtained from the table and outputting a command on an operating frequency of an inverter, are provided.

CONSTITUTION: A current detector 3 to detect a current of a motor-driven compressor as a load of the same, outputs a detecting signal I31. A micro-computer retrieves a revolution N from the both detecting current I31 and inverter operating frequency F, and computes and outputs an operating frequency command 41 to the inverter 2. A memory 5 has already stored the table N from relation of the detecting current I with revolution N, which are obtained from the operation of the motor-driven compressor performed in advance. In a light load operating time, the operation of the motor-driven compressor in terms of revolution N_0, the minimum workable revolution for any variation of the load, is selected, avoiding the revolution to drop down below N_0, which makes the input power of the motor-driven compressor minimized.